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APPLICATION NO.	FILI	NG DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/722,116	11/	/25/2003	Atsushi Koide	AK-N-432XX	AK-N-432XX 4859	
207	7590	06/07/2006		EXAMINER		
WEINGARTEN, SCHURGIN, GAGNEBIN & LEBOVICI LLP TEN POST OFFICE SQUARE				AHMED, SHEEBA		
	MA 02109			ART UNIT PAPER NUMBER		
ŕ				1773		
				DATE MAILED: 06/07/2006		

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)	
	10/722,116	KOIDE ET AL.	
Office Action Summary	Examiner	Art Unit	
	Sheeba Ahmed	1773	
The MAILING DATE of this communication app Period for Reply	pears on the cover sheet with the o	orrespondence address	-
A SHORTENED STATUTORY PERIOD FOR REPL	VIC CET TO EVRIPE 2 MONTH	'S) OD THIDTY (30) DAVS	
WHICHEVER IS LONGER, FROM THE MAILING DATE - Extensions of time may be available under the provisions of 37 CFR 1.1 after SIX (6) MONTHS from the mailing date of this communication.  If NO period for reply is specified above, the maximum statutory period of Failure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tir will apply and will expire SIX (6) MONTHS from to, cause the application to become ABANDONE	N. nely filed the mailing date of this communication. (D) (35 U.S.C. § 133).	
Status			
1) Responsive to communication(s) filed on	<b>_</b> ·	•	
2a) This action is <b>FINAL</b> . 2b) ☑ This	action is non-final.		
3) Since this application is in condition for allowar			
closed in accordance with the practice under E	Ex parte Quayle, 1935 C.D. 11, 4	53 O.G. 213.	
Disposition of Claims			
4) Claim(s) 1-3 is/are pending in the application.			
4a) Of the above claim(s) is/are withdraw	wn from consideration.		
5) Claim(s) is/are allowed.		7	
6)⊠ Claim(s) <u>1-3</u> is/are rejected.			
7) Claim(s) is/are objected to.			
8) Claim(s) are subject to restriction and/o	r election requirement.		
Application Papers			
9) The specification is objected to by the Examine	er.		
10) The drawing(s) filed on is/are: a) acc	epted or b) objected to by the	Examiner.	
Applicant may not request that any objection to the	drawing(s) be held in abeyance. See	e 37 CFR 1.85(a).	
Replacement drawing sheet(s) including the correct			
11)☐ The oath or declaration is objected to by the Ex	caminer. Note the attached Office	Action or form PTO-152.	
Priority under 35 U.S.C. § 119			٠
12)⊠ Acknowledgment is made of a claim for foreign	priority under 35 U.S.C. § 119(a	)-(d) or (f).	
a)⊠ All b)□ Some * c)□ None of:			
<ol> <li>Certified copies of the priority document</li> </ol>	s have been received.		
<ol><li>Certified copies of the priority document</li></ol>			
3. Copies of the certified copies of the prior	•	ed in this National Stage	
application from the International Bureau			
* See the attached detailed Office action for a list	or the certified copies not receive	u.	
Attachment(s)	A) 🗖 Indonésia 0	(DTO 412)	
Notice of References Cited (PTO-892)   Notice of Draftsperson's Patent Drawing Review (PTO-948)	4) Interview Summary Paper No(s)/Mail Da	ate	
B) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date	5)  Notice of Informal F 6)  Other:	Patent Application (PTO-152)	

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#### **DETAILED ACTION**

#### Abstract

1. Applicant is reminded of the proper language and format for an abstract of the disclosure.

The abstract should be in narrative form and generally limited to a single paragraph on a separate sheet within the range of 50 to 150 words. It is important that the abstract not exceed 150 words in length since the space provided for the abstract on the computer tape used by the printer is limited. The form and legal phraseology often used in patent claims, such as "means" and "said," should be avoided. The abstract should describe the disclosure sufficiently to assist readers in deciding whether there is a need for consulting the full patent text for details.

The language recited in the Abstract is awkward and needs revision. Appropriate action is required.

## Claim Objections

2. Claim 3 is objected to because of the following informalities:

Claim 3, line 3: "dose" should be "does".

Appropriate correction is required.

### Claim Rejections - 35 USC § 112

The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

3. Claims 1 and 2 are rejected under 35 U.S.C. 112, first paragraph, because the specification, while being enabling for a composite containing a non-conductive resin and not more than 15 wt. % carbon nano material based on the composite, does not reasonably provide enablement for a composite containing a

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non-conductive resin and carbon nano material in any amount. The specification does not enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to practice the invention commensurate in scope with these claims.

Page 5, lines 15-24 of the Specification state that "the carbon nano material is ultrafine particulate and, in a blending quantity not exceeding 15 weight %, since it does not damage the characteristics of resin and injection molding can be performed under conditions set according to a resin". Hence, specifically indicating that the amount of the carbon nano material does not exceed 15 weight %.

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

4. Claim 1 is rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Claim 1 recites a conductive resin molded product composed of a composite containing a non-conductive resin and a carbon nano material wherein the product comprises a resin insulating skin obtainable by molding the composite and a conductive core covered with said skin. It is unclear whether the conductive core, the resin insulating skin, or both are made of the composite containing a non-conductive resin and a carbon nano material. Appropriate clarification or amendment is required.

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## Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- 5. Claims 1-3 are rejected under 35 U.S.C. 102(e) as being anticipated by Todt et al. (US 6,599,446 B1).

Todt et al. disclose electrically insulating polymers can be made electrically conductive via the addition of electrically conductive fillers (Column 1, lines 12-17). Examples of the electrically conductive fillers include carbon fibers, fibrils and nanotubes (Column 9, lines 18-25). The inclusion of small amounts of organic ionic species in the preparation of the electrically conductive polymer provides compositions having enhanced electrical properties with the addition of less of the conductive filler than would otherwise be needed (See Abstract).

Articles made from the compositions of the present invention may be obtained via injection molding, compression molding and extrusion however injection molding is the preferred method of forming articles (Column 12, lines 55-60).

Table 2 shows that the addition of calcium state in the composition provides a composite having 0.8% carbon fibrils with the same conductivity as one having

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30% more carbon fibrils. All limitations of the claimed invention are disclosed in the above reference.

#### Conclusion

6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Sheeba Ahmed whose telephone number is (571)272-1504. The examiner can normally be reached on Monday-Friday from 9am to 5pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Carol Chaney can be reached on (571)272-1284. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only.

Sheeba Ahmed Art Unit 1773

June 3, 2006